VOLUME 7 1990

SUBJECT INDEX

AA and ANA rats, 349 Acetaldehyde, 33, 37, 295 Acetaldehyde adducts, 289 N-acetyl aspartate (N-AA), 443 Age-relatedness, 361 Aggression, 349 Alcohol, 43, 75, 87, 107, 115, 137, 145, 171, 207, 261, 273, 279, 307, 355, 375, 443, 449, 465, 523, 537 Alcohol consumption, 361, 547 Alcohol dehydrogenase, 69, 413 Alcohol incompatibility reaction, 295 Alcohol metabolism, 413 Alcohol self-selection, 133 Alcohol-drinking behavior, 199 Alcohol-ethyl, 331 Alcohol-nonpreferring NP rats, 531 Alcohol-preferring P rats, 367 Alcohol-preferring rats, 199 Alcohol-related birth defects, 483 Alcohol-related developmental effects, 11 Alcoholic liver disease, 37 Alcoholics, 37, 361 Alcoholism, 7, 249, 311, 461 Aldehyde adduct, 449 Aldehyde dehydrogenase, 69, 397, 413 Aldehyde dehydrogenase inhibition, 165 Aldehyde dehydrogenase isozyme, 37 Allele-specific oligonucleotides, 413 Alpha, 461 Alpha rhythm, 471 Antipredator behavior, 375 Anxiety, 349, 375 Apomorphine, 489 Ascorbic acid, 295 Aspirin, 355 Aversion generalization, 115

BaP metabolism, 137 Barbiturates, 261, 273 Bay K 8644, 279 Behavior genetics, 207 Behavioral pharmacology, 187 Behavioral pharmacology of ethanol, 1 Benzodiazepine, 187, 261, 273, 307 Betalactam antibiotics, 295 Blood alcohol concentration, 213 Blood ethanol concentration, 367, 389 Blood ethanol levels, 129 Blood levels, 37 Body temperature, 331 Brain ethanol levels, 129 Brain stimulation reward, 213 Brain, 43, 107 Brain-stimulation reward, 221 Breath acetaldehyde, 285 Bromocryptine, 199

Cadmium, 17
Calcium channels, 279
Calcium influx, 229
Capillary, 43
β-Carboline, 27
Cardiac muscle, 97

1.4-Butanediol, 503

Cardiovascular system, 537 Catecholaminergic system, 327 Catecholamines, 159, 513 Cerebellum, 43, 107, 419 Chick, 419 p-Chlorophenylalanine, 403 Chronic alcohol consumption, 339 Chronic alcoholic, 409 Chronic alcoholism, 103 Chronic drug effects, 91 Chronic treatment, 121 Cigarette smoke, 285 36Cl uptake, 237 Classical conditioning, 489 Cocaine, 193, 207 COLD/HOT mice, 245 Colonic temperature, 551 Conditioned place preference or aversion, Conditioned taste aversion, 115, 523 ω-Conotoxin, 279 Convulsions, 245 Coronary heart disease, 547 CSF, 479 Cyclic GMP, 229 Cyclooxygenase, 355 D1 dopamine receptors, 11

Defense, 375 Defensive behavior, 375 Dentate gyrus, 43 Desipramine, 531 DETC-Me, 165 Development, 43, 107, 483, 517 Dihydropyridines, 279 (±)1-(2;5-Dimethoxy-4-iodophenyl)-2-aminopropane (DOI), 199 Dipole localization, 471 Discriminative stimulus, 489 Disulfiram, 295 Disulfiram metabolites, 165 Divided attention, 471 DNA. 97 Dopamine, 187, 449 Dopamine agonists, 489 Dopamine and alcohol drinking, 199 Dopamine release, 279 Drinking, 7, 429, 449 Drug discrimination, 489 Drug self-administration, 207

EEG, 461
EEG activity, 471
Electrophysiology, 33
B-Endorphin, 409
Endothelium-dependent responses, 121
Environment, 321
Enzyme development, 69
Enzyme/substrate blank, 397
Ethanol, 7, 17, 21, 27, 37, 49, 61, 75, 91, 97, 103, 121, 129, 153, 159, 171, 213, 221, 229, 237, 245, 249, 279, 295, 321, 355, 375, 383, 389, 409, 419, 471, 489, 493, 517, 523
Ethanol consumption, 315

Ethanol elimination rate, 331
Ethanol intake, 403
Ethanol intoxication, 299
Ethanol liquid diets, 61
Ethanol pharmacokinetics, 331
Ethanol preference, 449, 503
Ethanol sensitivity, 331
Ethanol tolerance development, 327
Ethanol withdrawal seizures, 229
Ethanol-nutrition interactions, 383
Evaporative water loss, 551
Event-related potential, 465
Evoked potentials, 311
Ex vitro effects, 171
Experimental atherosclerosis, 299

Fear, 375
Ferrous sulfate, 295
Fetal alcohol, 513
Fetal alcohol effects, 1
Fetal Alcohol Syndrome, 11, 43, 107, 383
Fixed ratio, 355
Fluoride ion, 91
Fluoxetine, 199, 531
Follicle stimulating hormone, 21
Food intake, 531

GABA and alcohol drinking, 199 GABA systems, 261 GABA-activated chloride channels, 273 GABA-receptor-mediated chloride uptake, 49 GABA_A receptor, 237 GABA_A α-subunit mRNA, 237 GABAergic transmission, 261 Gamma-glutamyl transferase, 87, 339 Gangliosides, 49 GBR 12909, 199 Gender, 517 Gender effects, 11 Genetic influence, 327 Genetics, 159, 249, 483 Genotypes, 413 GGT ectoactivity, 339 Glutamate, 229 Glutathione, 153, 339 Glycoproteins, 49 Granule cells, 419 Grooming, 551 Growth, 517 Growth hormone, 21 Growth hormone releasing hormone, 21 Gustatory factors, 83

Harman, 27
Heart, 97
Heart muscle necrosis, 299
Heat stress, 551
Hemoglobin-associated acetaldehyde, 289
High risk, 465
Hippocampal slice electrophysiology, 507
Hippocampus, 43, 507
Housing, 321
Human blood, 27
Human brain, 443

Human healthy volunteers, 547 Human studies, 171 (±)-8-Hydroxy-2-(di-N-propylamino)tetralin (8-OH DPAT), 199 6-Hydroxydopamine lesions, 489 17α-Hydroxylase, 75 5-Hydroxytryptophan, 315 Hypnotic sensitivity, 389 Hypothalamus, 513 Hypothermia, 245, 327, 517

In vitro effects, 171 Indomethacin, 355 Ingestion, 503 Intrinsic factor, 153

Jugular catheterization, 129

Limbic-forebrain, 449 Limbic-midbrain, 449 Long-Sleep mice, 69 Long-term potentiation, 507 LS and SS mice, 389, 483 Luteinizing hormone releasing hormone, 21 Luteinizing hormone, 21 Lymphocytes, 137

Magnetic Resonance Spectroscopy (MRS),
443
Markers for alcoholism, 285
Maturation, 11
MCMI, 461
Membrane fluidity, 91
Membrane potentials, 33
Metabolism, 37
MHPG, 159
Mice, 61, 207
Microdialysis, 129
Microencephaly, 107
Microinjection, 449
MK-801 binding, 229

Na*-K*-ATPase, 49, 91
Naltrexone, 17
Narcosis time, 327
Neonatal rat testis, 75
Neuron, 107, 145
Nicotine, 249
Nicotinic receptors, 249
NMDA agonists and antagonists, 389
NMDA receptor, 229
Nonalcoholics, 27
Nonenzymatic reaction, 397
Nucleus accumbens, 449

Morphine, 7

Mortality, 483

Motor activity, 551

Motor impairment, 159

Muscle performance, 361

Olfactory tubercle, 449 Operant behavior, 207, 355 Opiates, 17, 193, 207 Opioid system, 409 Opioids, 7 Oral ethanol, 187 Oxygen consumption, 551

P3, 465 P300 ERP, 471 Pacemaker fibers, 33 Palatability-induced ethanol drinking, 531 Passive avoidance, 507 Pentobarbital, 237 Peripheral neuropathy, 103 Personality, 461 Pharmacogenetics, 245 Physical activity, 361 Platelet aggregation, 171, 547 Platelet function, 171 Plus-maze, 349 Poikilothermia, 517 Polymerase chain reaction, 413 Postnatal, 107, 517 Prefrontal cortex, 145 Prenatal alcohol exposure, 1, 507 Preoptic area, 449 Prepubertal, 21 Proconvulsant treatments, 245 Prostaglandins, 355 Protein synthesis, 97 Psychomotor stimulants, 193 Purkinje cells, 107 Pyridoxal 5'-phosphate, 61 Pyridoxamine 5'-phosphate, 61

Quinine, 83

Rat, 7, 43, 107, 115, 133, 145, 187, 207, 295, 321, 327, 355, 375, 429, 517
Rat liver, 339
Rat model, 493
Rat strains, 403
Reference memory, 307
Reinforcing drugs, 523
Resident-intruder behavior, 349
Retrograde axonal transport, 103
Risk assessment, 375
RNA, 97
Ro 15-4513, 199
Rotational behavior, 489

Saccharin, 83
Scalp-recorded ERPs, 479
Selected rat lines, 159
Selectively bred lines, 245
Selectively bred Long-Sleep and Short-Sleep
mice, 1
Selectively bred mice, 483

Self-Administered Alcoholism Screening Test, 289 Self-administration, 187, 193, 221, 321 Sensitivity, 429 Sensory processing, 311 Septum, 449 Serotonin and alcohol drinking, 199 Serotonin uptake blockers, 315 Short-Sleep mice, 69 Sialic acid, 49 Sinoatrial node, 33 Skull, 479 Smoking, 249 Somatostatin, 21 Strains, 429 Stress, 133, 537 Synapses, 145 Synaptosomes, 279

Taste, 83 Taste reactivity, 115 Teetotallers, 87 Temperature challenge, 331 Tension reduction hypothesis, 133 Testicular morphology, 75 Testicular steroidogenesis, 75 Testosterone, 513 Tetrahydropapaveroline, 449 Tetrahydroisoquinolines (TIQs), 409 Thermoregulation, 517 Thiamin deficiency, 493 Thiamine deficiency, 103 Thoracic aorta, 121 Tolerance, 249, 367, 517 1-[3-(Trifluoromethyl)phenyl]-piperazine (TFMPP), 199 Types of alcoholics, 83

UChA and UChB rats, 315 Uncontrollable food, 133 Uncontrollable shock, 133 US preexposure effect, 523

Vascular prostanoids, 171 Vasculature, 43 Vitamin B-6 nutrition, 61 Voluntary alcohol consumption, 349 Voluntary alcohol drinking, 83

Water reinforcement, 355 Wernicke's Encephalopathy, 493 Whole blood-associated acetaldehyde, 285 Withdrawal, 145, 245 Working memory, 307 WSP/WSR mice, 245

Xanthine oxidase, 153

AUTHOR INDEX

Abel, E. L., 507 Adams, R. D., 121 Adler, L., 311 Agarwal, D. P., 413 Aguirre, J. C., 409 Alkana, R. L., 331 Alvarado, R., 315, 403 Alves, M. C., 145 Amass, L., 471 Amit, Z., 321

Barradas, M. A., 171
Begleiter, H., 465
Bejanian, M., 331
Berman, R. F., 507
Bezio, S., 383
Bice, P. J., 115
Blanchard, D. C., 375
Blanchard, R. J., 375
Bolduc, M., 471
Borg, S., 87
Bosy, T. Z., 389
Bratton, G. R., 17
Brown, L. M., 233
Brown, R. A., 33

Cadete-Leite, A., 145 Carpentier, R. G., 33 Carrozza, D. P., 129 Chiu, T.-K., 443 Choi, H. W., 7 Cochin, J., 443 Collins, A. C., 249 Colman, N., 153 Colombo, G., 503 Contreras, S., 315, 403 Crabbe, J. C., 245

D'Alquen, G., 383 Damm, H., 27 Davies, B. T., 523 Dees, W. L., 21 de Fiebre, C., 249 Del Arbol, J. L., 409 Diebold-Simoni, P., 137 Dildy, J. E., 233 Dobrosielski, M., 443 Doffoel, M. 137 Dopp, J. M., 115 Dudek, B. C., 1

Ehlers, C. L., 461 Erickson, C. K., 81, 181, 277, 371, 435, 559 Espinar, A., 419

Fadda, F., 503 Faiman, M. D., 165 Feller, D. J., 245 Ferraro, T. N., 129 File, S. E., 307 Finn, D. A., 331 Fisher, N. M., 361 Fletcher, S. K., 517 Freundt, K. J., 295 Furth-Walker, D., 61

Ganjam, V. K., 75 Gatto, G. J., 367, 531 Génis-Gálvez, J. M., 419 George, F. R., 207, 355 Gessa, G. L., 503 Gilliam, D. M., 1, 483 Goad, L. D., 517 Goedde, H. W., 413 Goodlett, C. R., 107 Gordon, C. J., 551 Gorman, K., 321 Grant, K. A., 229 Guru, S. C., 397

Hannigan, J. H., 11 Harper, C. G., 493 Harris, R. A., 273 Hart, B. W., 165 Heiler, C., 295 Hellevuo, K., 159 Herbert, V., 153 Hilakivi, L. A., 349 Hiney, J. K., 261 Ho, I. K., 261 Hoffman, P. L., 229 Hopkins, M. A., 443 Horger, B. A., 17 Hsu, L. L., 185 Hubbell, C. L., 7 Hudspith, M., 229

Israel, Y., 339

Jayatilleke, E., 153 Jeremy, J. Y., 171 Johnston, C. A., 21 June, H. L., 213 Jungkuntz-Burgett, L., 513

Kalant, H., 227, 259, 429 Kampov-Polevoy, A. B., 83 Kasheffskaya, O. P., 83 Kelce, W. R., 75 Kelly, S. J., 43 Kempf, J., 137 Khanna, J. M., 429 Kiefer, S. W., 115 Kiianmaa, K., 159 Kim, C., 159 Klemm, W. R., 49 Koob, G. F., 193 Kornetsky, C., 221 Korpi, E. R., 349 Kotch, L. E., 483 Kouri, E., 471

Leibman, D., 61 Leonhardt, R. A., 413 Leslie, S. W., 233, 279 Lewis, M. J., 213 Li, T.-K., 199, 367, 531 Light, K. E., 517 Lingford-Hughes, A., 237 Lukas, S. E., 443, 471 Lumeng, L., 199, 367, 531 Lutter, S., 27

Kril, J., 493

McBride, W. J., 199, 367, 531 McLane, J. A., 103 McLaughlin, S. D., 285

Mabbutt, P. S., 307 Machu, T., 279 Magnusson, P.-H., 87 Mahoney, J. C., 43 Marcussen, B. L., 107 Mardones, J., 315, 403 Marks, M. J., 249 Meier-Tackmann, D., 413 Meinck, H.-M., 311 Meisch, R. A., 355 Mello, N. K., 443 Mendelson, J. H., 443, 471 Merrill, C. D., 245 Mikhailidis, D. P., 171 Mohler, F. S., 551 Montpied, P., 237 Moolten, M., 221 Morrow, A. L., 237 Mosca, E., 503 Mungas, D., 461 Murphy, J. M., 199, 367, 531 Mustafa, S. J., 121 Myers, R. D., 183, 449

Nation, J. R., 17 Nixon, P. F., 493

Orr, M. R., 115 Otto, M., 27

Päivärinta, P., 349
Parker, L. A., 523
Paul, S. M., 237
Paula-Barbosa, M. M., 145
Pendergast, D. R., 361
Persson, J., 87
Peters, T. J., 97
Peterson, C. M., 285, 289
Pfefferbaum, A., 479
Pohorecky, L. A., 537
Porjesz, B., 465
Prada, F. A., 419
Preedy, V. R., 97
Pugh, C. K., 17

Quesada, A., 419 Quintanilla, M. E., 327

Rabe, C. S., 229
Räder, K., 311
Raya, J., 409
Reid, L. D., 7
Rico Irles, J., 409
Riley, E. P., 1
Rommelspacher, H., 27
Ross, S. L., 289
Rowe, L. D., 17
Rudeen, P. K., 75, 513
Rudzińska-Kisiel, T., 299
Ruiz-Requena, M. E., 409
Ruth, J. A., 389

Sachs-Ericsson, N., 27 Samson, H. H., 187 Schaafsma, G., 547 Schenk, S., 321 Schmidt, G., 27 Schmidt, L. G., 27 Schmitt, M., 137 Schreiner, E., 295 Schuckit, M. A., 461 Schwarz-Stevens, K., 187 Scott, B. K., 285, 289 Segovia-Riquelme, N., 315 Serbus, D. C., 517 Shah, G., 429 Sharma, H., 429 Shaw, S., 153 Silverman, P. B., 489 Sims, J. S., 233 Sinclair, J. D., 83 Sintavanarong, P., 443 Skelley, C. W., 21 Smolen, A., 61, 69 Smolen, T. N., 61, 69 Speisky, H., 339 Swann, A. C., 91 Syapin, P. J., 331

Tabakoff, B., 229
Takada, A., 37
Takase, S., 37
Tampier, L., 327
Tan, S. E., 507
Taranath Shetty, K., 397
Tavares, M. A., 145
Teoh, S. K., 443
Terdal, E. R., 245
Tolliver, G. A., 187
Toussaint, J.-L., 137
Tuominen, K., 349

Ueshima, Y., 37 Ulm, R. R., 133

Valverius, P., 229 van de Kamp, J. L., 69 van de Pol, H., 547 Veenstra, J., 547 Vogel, W. H., 129 Volpicelli, J. R., 133

Wall, T. L., 461 Weinberg, J., 383 Weiss, F., 193 Weiss, S. M., 375 West, J. R., 43, 107 West, J. R., 107 Weyers, P., 129 Wieditz, G., 311 Wild, K. D., 7 Williams, S. P., 121 Wilson, W. R., 389 Woods, B. T., 443 Woodward, J. J., 279 Wrzołkowa, T., 299

Yasuhara, M., 37 York, J. L., 361 Yourick, J. J., 165 Yu, S., 261

Zajac, C. S., 507 Zambrano, V., 327 Zimitat, C., 493